

Abstract

A sensor element (10) used for detecting a gas component in a measuring gas, preferably for determining the oxygen concentration in an exhaust gas of an internal combustion engine, is described. The sensor element (10) has a conductor track (101) applied to a solid electrolyte (21, 22), which includes an electrode (101a) provided in a measuring area (11) of the sensor element (10) and an electrode lead (101b) connected to the electrode (101a) and situated in the lead area (12) of the sensor element (10). A heating element (51) is provided for heating the measuring area (11) of the sensor element (10). In a transition area (13) between the measuring area (11) and the lead area (12), the conductor track (101) has a narrowing (60). Furthermore, the electrode (101a) includes a first electrode section (81) and a second electrode section (82), the first electrode section (81) being connected to the electrode lead (101b) in a transition area (13) between the measuring area (11) and the lead area (12), and the first and second electrode sections (81, 82) being electrically connected to one another only on their sides facing away from the lead area (12).

Figure 4